

FY 1998 Technology Deployment in Environmental Management

Solutions of the Future at the INEEL

*Site Technology Coordination Group
U.S. Department of Energy, Idaho Operations Office*



INEEL

Bulk Concrete Waste Disposal System

Problem: *An improved method to manage the D&D and eventual disposal of large contaminated concrete structures.*

Baseline Process: *Reduce the concrete to rubble and place it in wooden or metal boxes for disposal.*

Innovative Process: *Remotely cut the concrete into large slabs, wrap the slabs in plastic (Herculite) and transport directly to the disposal facility.*

Comparison: *This innovative process eliminates the cost of waste containers and decreases worker exposure to airborne contamination and radiation fields. The concrete slabs are placed directly in the disposal facility so void space is eliminated and the possibility for future subsidence is reduced.*

Cost Savings: *During the D&D of the old hot cell facility at Auxiliary Reactor Area \$61.4K in savings was realized over the baseline technology.*